



# **California Energy Commission Activity Overview**

**Bob Therkelsen**  
**February 10, 2004**

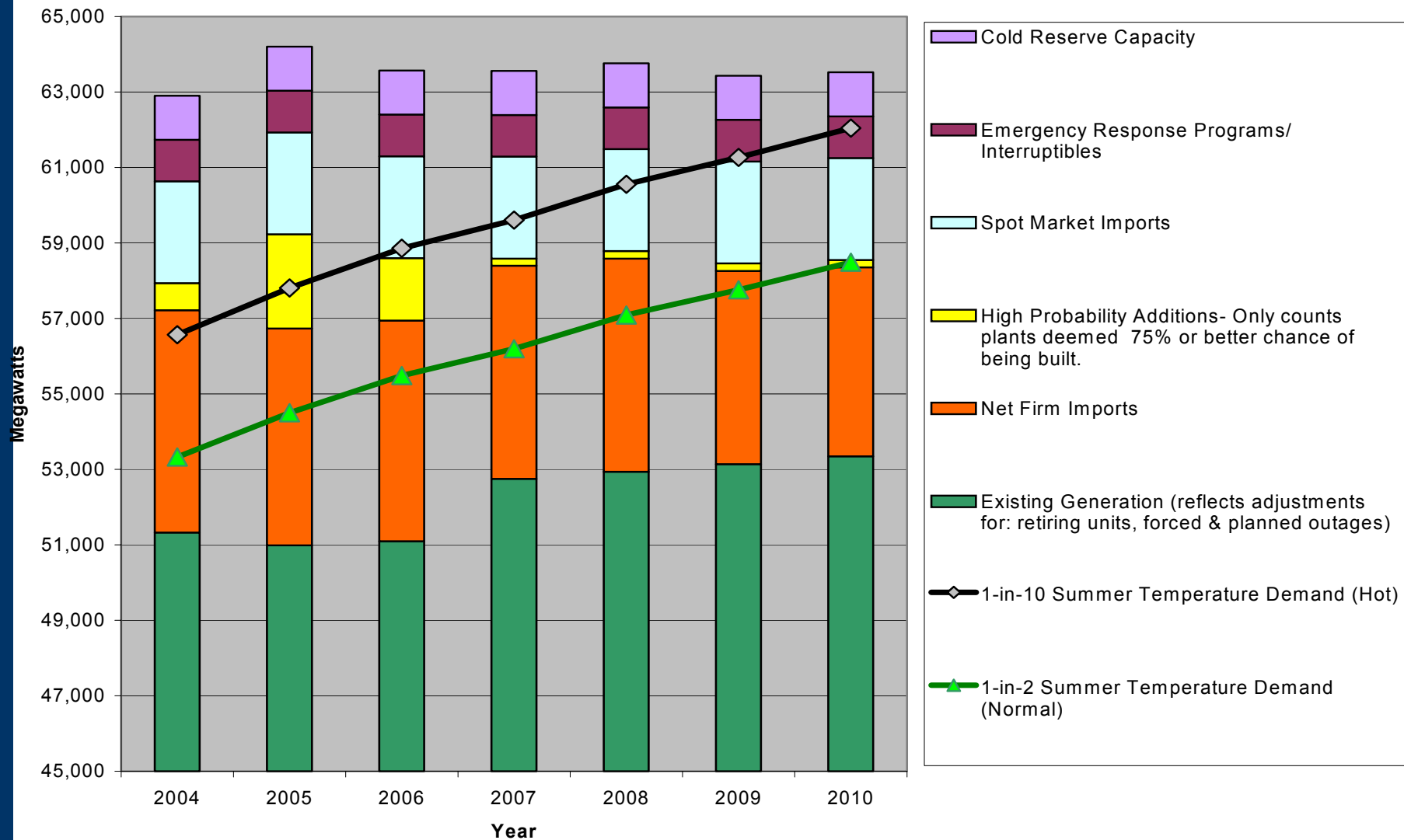


# 2003 IEPR Conclusions

- **Electricity - adequate through 2009 under normal conditions**
- **Natural Gas - increasingly vulnerable**
- **Fuels - tight supplies and price fluctuations likely to get worse**



# Supply Demand Balance





# **Energy Commission Responsibilities**

- **Provide information, assessments, and policy recommendations regarding energy systems today and in the future**
- **Implement programs to help ensure reliable supplies of energy that promote general welfare protect health, safety, and environment**



# **FY 03-04 Program Focus**

- ***Increasing energy efficiency***
- ***Developing new or alternative resources***
- ***Improving energy infrastructure***



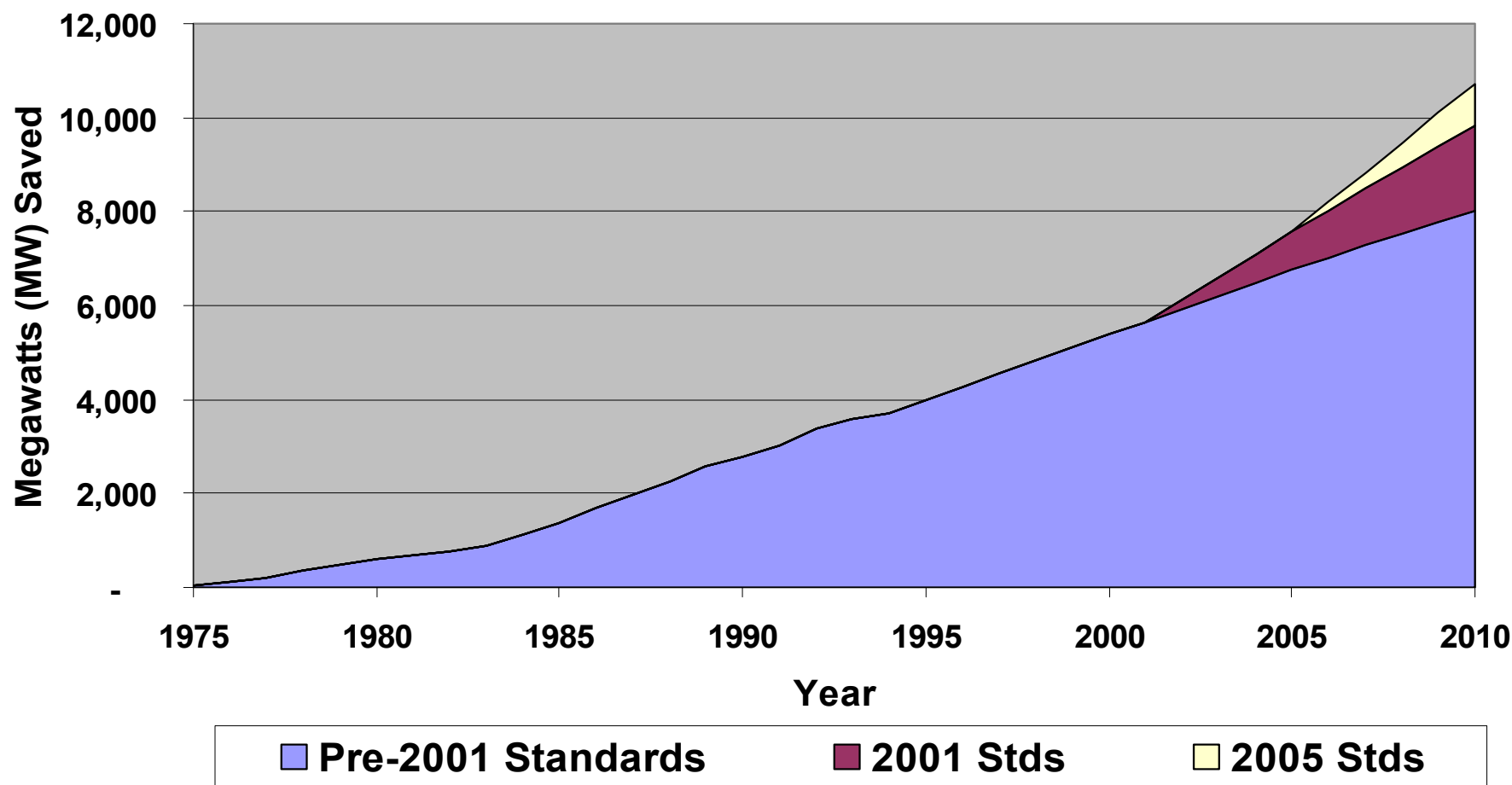
# ***Energy Efficiency***

- **Electricity and natural gas**
  - Energy efficiency standards
  - Demand response collaboration
  - Energy efficiency bond program
  - Energy efficiency R&D
- **Transportation fuels**
  - CAFÉ Standards



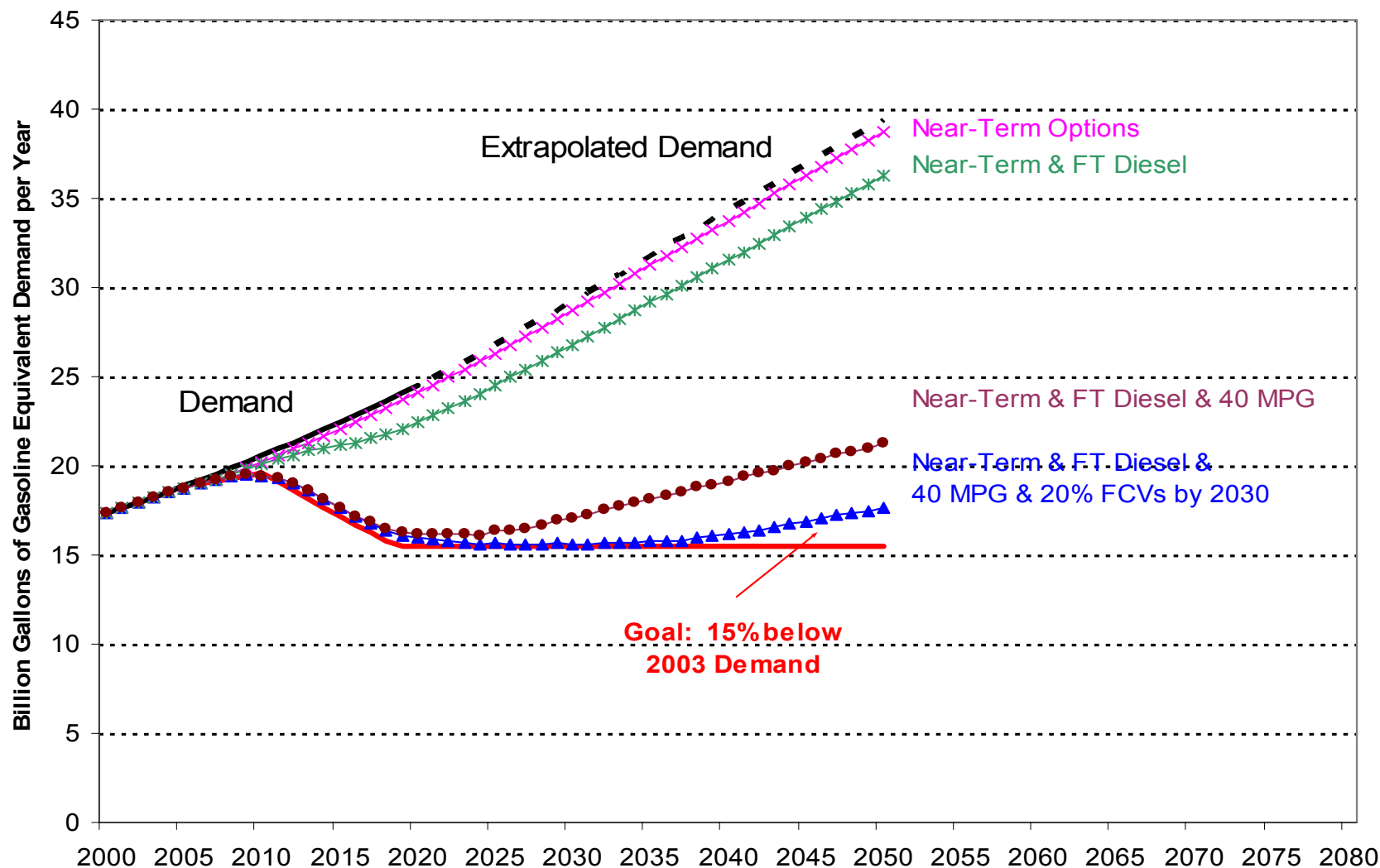
# Efficiency Program Impacts

## Impact of the Energy Efficiency Standards





# Transportation Fuels Demand







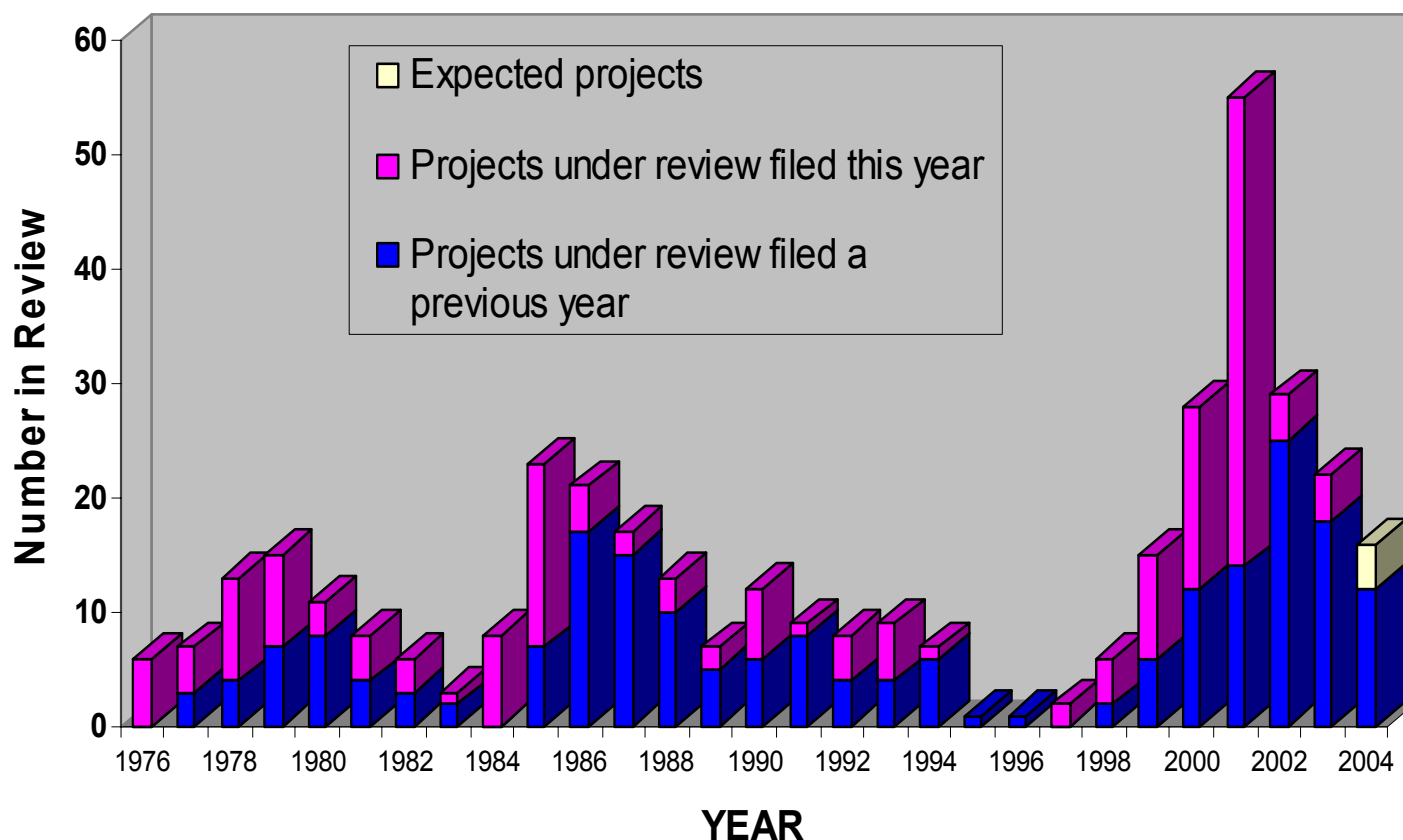
# ***New or Alternative Sources***

- **Energy Facility Siting**
- **Renewable Electricity Generation**
  - **RPS Guidelines & Project Tracking**
  - **Renewable Development Accounts**
  - **Renewable Technology R&D**
- **Transportation Alternatives**
  - **Alternative Vehicles**
  - **Hydrogen Infrastructure Issues**
- **Natural Gas Supplies**
  - **LNG Information and Coordination**



# Energy Facility Siting

## Power Plants in Review by Year





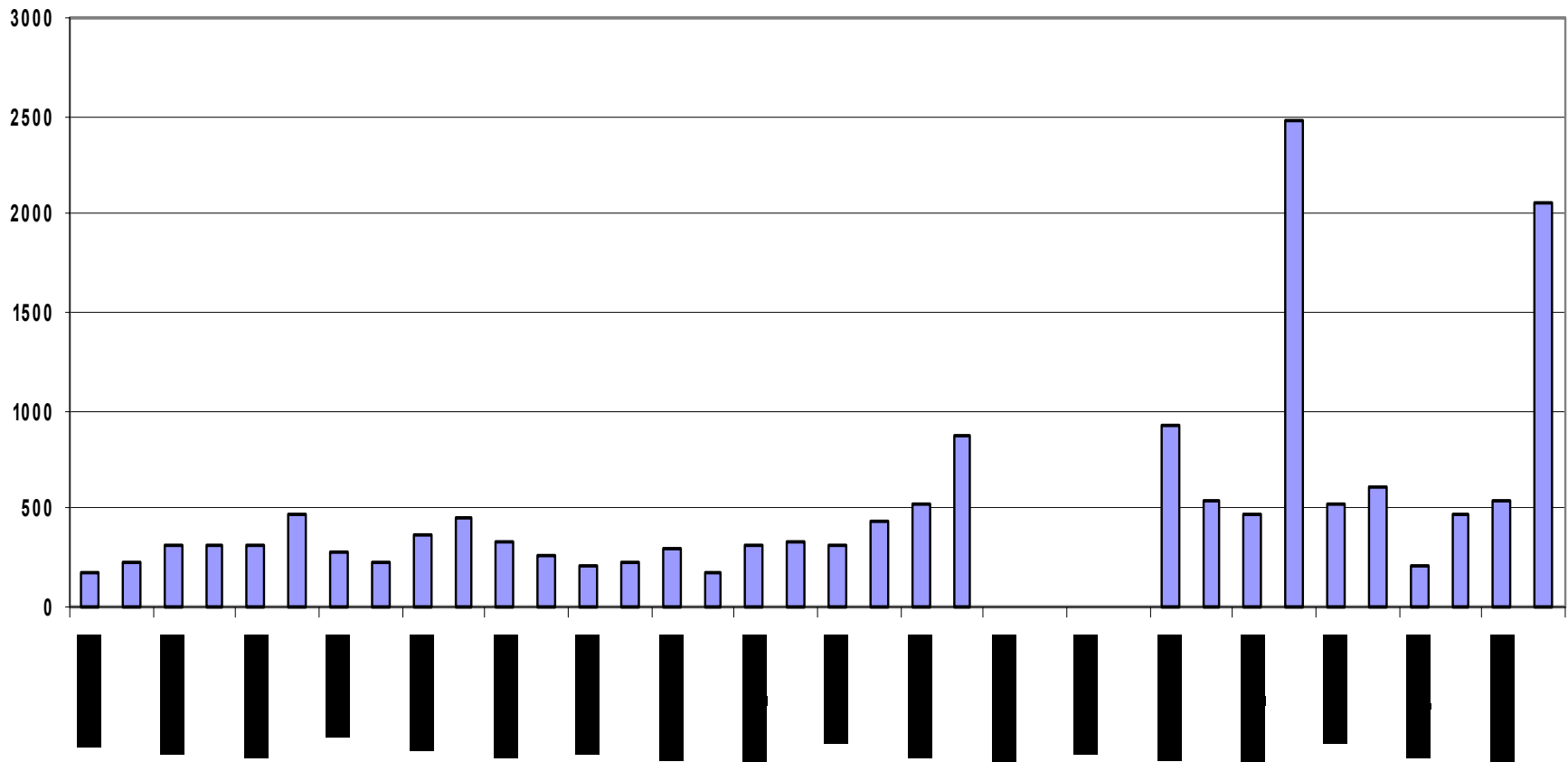
# Energy Facility Siting

Permitted Projects Status	Total	MW
Operational	24	8,311
Construction	6	2,459
Financing	2	731
On hold by developer	9	6,604
Canceled by developer	3	294
Total Projects Permitted	44	18,399
Total Projects Currently in Review	13	4,212



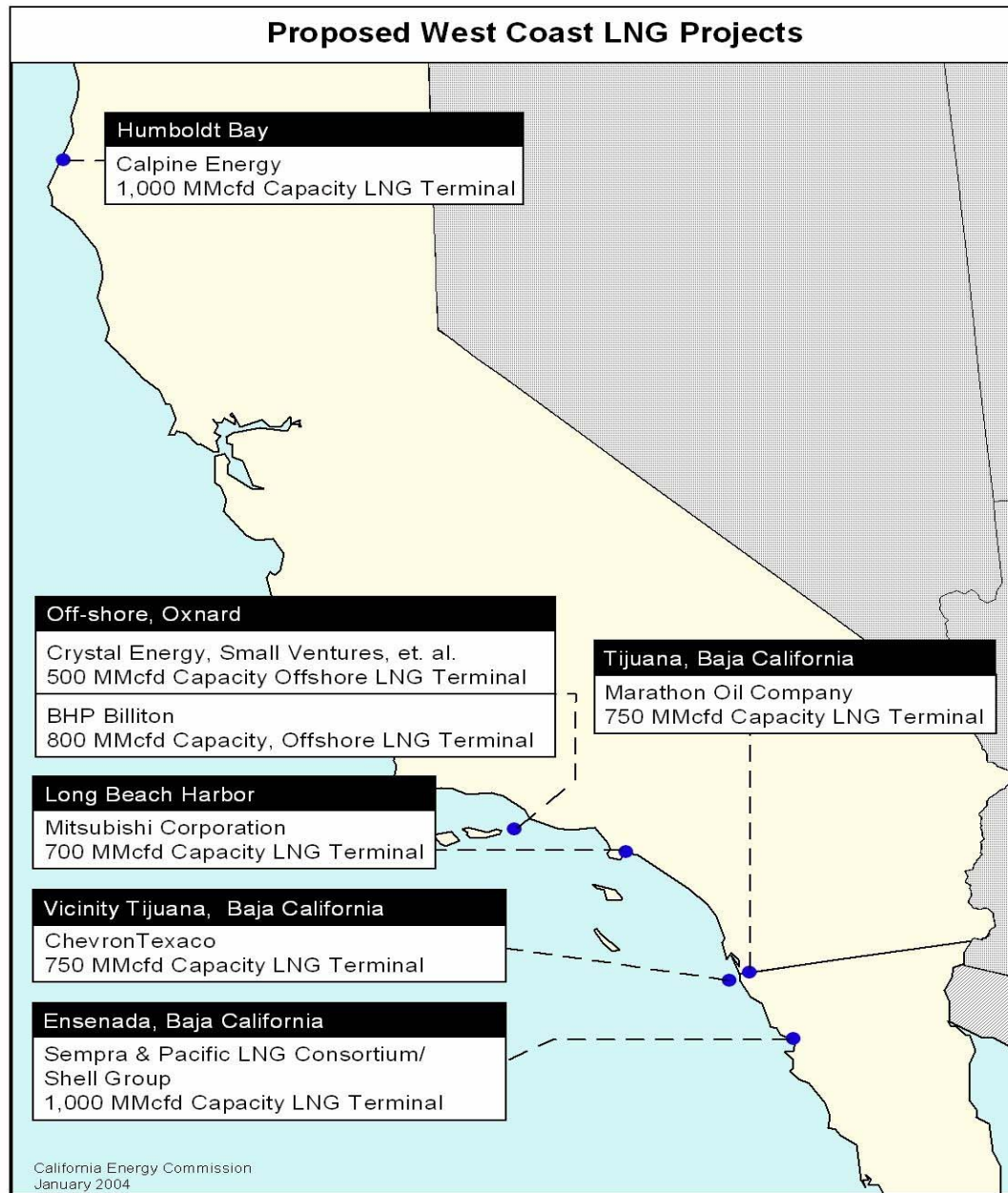
# Emerging Renewables

## Emerging Renewables Program Applications





# Proposed LNG Projects





# ***Energy Infrastructure***

- **Transportation Fuels**
  - **Emergency Response**
  - **Permitting Options**
- **Natural Gas**
  - **Project Tracking**
- **Electricity**
  - **Permitting Options**
  - **Transmission R&D**



# **FY 03-04 Policy Focus**

- ***2003 Energy Report***
- ***2004 Energy Report Update***
- ***2005 Energy Report***



# ***2003 Energy Report***

- **Overview of trends and issues**
- **Foundation of state energy policy**
  - **CPUC procurement**
  - **ISO transmission assessment**
  - **CPUC natural gas OIR**
  - **LNG permitting task force**
  - **Tri-state climate change initiative**





# ***2004 Energy Report Update***

- **Progress on 2003 Energy Report**
- **Aging power plants**
- **Renewables**
- **Transmission**



# ***2005 Energy Report***

- **Update trends and issues**
- **Foundation for CPUC procurement**
- **Critical energy issues**
- **Policy recommendations**